Exercise 47

For the following exercises, given each function f, evaluate $f(-3)$, $f(-2)$, $f(-1)$, and $f(0)$.

$$f(x) = \begin{cases} 1 & \text{if } x \le -3 \\ 0 & \text{if } x > -3 \end{cases}$$

Solution

Since $-3 \le -3$,

$$f(-3) = 1.$$

Since $-2 > -3$,

$$f(-2) = 0.$$

Since $-1 > -3$,

$$f(-1) = 0.$$

Since $0 > -3$,

$$f(0) = 0.$$